AUDIOVOX®
DRIVEN BY DICE ELECTRONICS

UNIVERSAL **RDS**
INTEGRATION KIT

Installation Guide/User manual

Made for iPod iPhone

AUDIOVOX®
DRIVEN BY DICE ELECTRONICS

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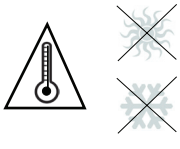
Warning and safety!

Please read these instructions carefully before proceeding. Failure to follow instructions may result in improper operation or injury. Neither Audiovox Electronics Corporation nor Apple Inc., its regional offices, distributors or resellers take any responsibility for any damage or injury as a result of using the integration kit.

- Do not open, disassemble or alter the interface in any way.
- Do not insert anything into the casing.
- Do not cut or try to alter cables in any way and always use the correct connections.
- Only operate unit when stationary or ask passengers to operate it for you.
- Do not allow the Apple iPod/iPhone to distract you from driving.
- Exercise good judgement and keep your eyes on the road at all times.
- Do not expose unit to extreme temperatures, humidity or shock.
- Keep the unit and iPod/iPhone away from fluids.
- Keep away from children! - Interface components may contain small parts, can be broken or disassembled and components may become loose from vibration and heat. Small components and packaging materials may be a choking hazard when handled by children.



Congratulations on your purchase!

Thank you for purchasing this integration kit. Please review this booklet before operating the unit. This interface was designed and manufactured to seamlessly integrate with your vehicle's factory audio system.

Product registration

We recommend registering your Audiovox product so you can receive news about important firmware updates and have unlimited access to our online support system.

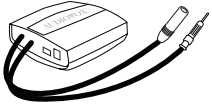
To register your Audiovox product, please complete the following steps:

1. Visit http://www.audiovoxproducts.com
2. Look up and save the serial number of the product.
3. Complete the product registration form.
4. Submit the form.
5. Save the registration sheet in a safe place for future reference.

If you are unable to complete the registration via internet, please call Audiovox at 1-800-645-4994.

Prior to installation make sure the module's firmware is up to date to ensure compatibility with the latest features and enhancements. Please refer to page 21 to update firmware.

Universal RDS kit contents

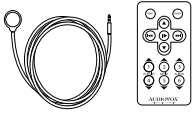


Universal RDS module

user manual

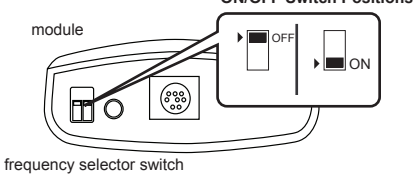
pro-install power cable

dock cable



IR Receiver & Remote (optional)

Frequency configuration settings



FM (MHz)	Dip switch 1	Dip switch 2
88.7	OFF	OFF
93.3	ON	OFF
97.5	ON	ON
107.7	OFF	ON

Supported iPod models and firmware version requirements

Model	Firmware / OS Version
1G nano	1.3.1
iPod 5G	1.3
2G nano	1.1.3
iPod classic	1.1.2
3G nano	1.1.3
iPod touch	iOS 3.1.3
iPhone	iOS 3.1.3
iPhone 3G	iOS 4.2.1
4G nano	1.0.4
120 GB classic	2.0.1
2G touch	iOS 4.2.1
iPhone 3GS	iOS 5

Model	Firmware / OS Version
160 GB classic	2.0.4
5G nano	1.0.2
3G touch	iOS 5
iPhone 4	iOS 5
iPhone 4S	iOS 5
4G touch	iOS 5
6G nano	1.2

Attention installer! Please read the following!

Audiovox strongly recommends that the unit be installed in an easily accessible place!
DO NOT PLACE IT BEHIND THE RADIO AND DO NOT HIDE UNDER CARPET!

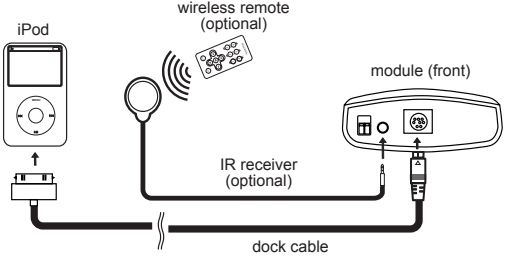
Whether the unit is professionally or self installed, put the module where you, the end user can get to it easily in the future. (Have the installer show you where the box is.)

Installing the Universal RDS module behind the radio will make it difficult to:

-Add possible future upgrades, changing software, adding new features, improving operation;
-Access the DIP switches located on the module;
-Remove the unit in case of failure.

MAKE SURE THAT THE MODULE IS IN AN ACCESSIBLE PLACE!

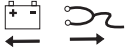
Connection diagram



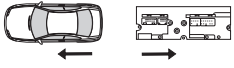
Installation

1.Verify compatibility, certain radios require antenna adapter(s), not included in the kit.

2. Disconnect battery

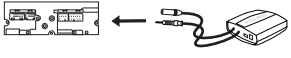


3. Remove radio from car



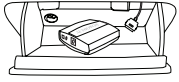
4. Set the DIP switches for the frequency selector switch to the desired setting.

5. Install Universal RDS cable. Plug the factory radio antenna to the receptacle on the module.

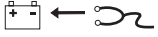


6. Test for 12V constant, 12V switched, and ground sources. Splice into with leads from power cable.

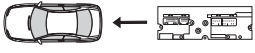
7. Route kit to glove box or other accessible location.



8. Connect battery & test*



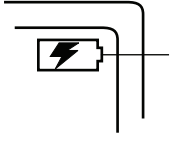
9. Complete install by re-installing radio



10. Save frequency to a preferred preset on the radio if desired.

Charging

The interface automatically charges the battery of the iPod when connected and your vehicle ignition key is in the ON position.



Charging may be shown by an icon that appears on the upper right corner of the iPod screen. May vary by model.

Basic operation

1. Power on the radio and select the FM source.
2. Tune the radio to the frequency set by the configuration switches (see page 6).
3. Connect your iPod or iPhone via docking cable for iPod to the Universal RDS module.
4. Select/control desired music on your iPod/iPhone.
5. Use the optional wireless remote for control.
6. To listen to radio stations either disconnect your iPod/iPhone, or press the Source button on the optional wireless remote controller.

Text display on typical car radios

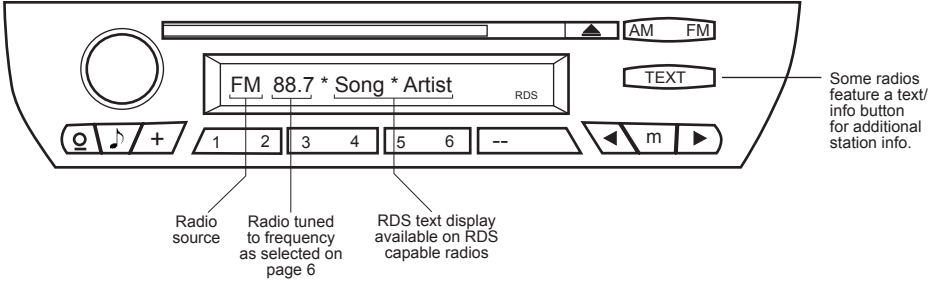
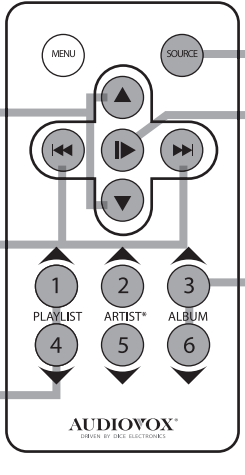


Image is for illustration purposes only. Please review your vehicle radio's documentation for specific details on how to operate it and for details on RDS technology.

Optional wireless remote function for iPod/App



▲	**iPod:** Shuffle SONG (within a PLAYLIST) / Shuffle ALBUM / Shuffle off
▼	**iPod:** Repeat one / Repeat all / Repeat off

⏭	**iPod:** Next Track **App:** Next station/song (App dependant)
⏮	**iPod:** Previous Track **App:** Prev station/song (App dependant)

1	**iPod:** Skip to the next PLAYLIST
4	**iPod:** Skip to the previous PLAYLIST

SOURCE	Toggle the audio sources between iPod and FM
⏯	Play / Pause

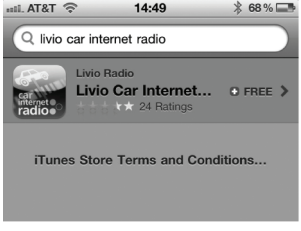
3	**iPod:** Skip to the next ALBUM
6	**iPod:** Skip to the previous ALBUM

*Next / Previous ARTIST function is currently not supported.

Internet Radio application support (iPhone/iPod touch)

This kit includes support for internet radio streaming apps available on the iTunes® Store. Thousands of stations can be streamed through data connections. Supported apps include Livio Car Internet Radio, Pandora, iHeart Radio and more. Supported features such as text display on screen, and next/previous track functions will vary by app.

To learn more about each app specifically, please visit the website for the app you need information about.



Data connection requirements (3G/4G/WiFi)

Users must have an active wireless data connection in order to stream music from an app while in the car. Data connections including “3G” or “4G” through wireless carriers, or a third party wireless Internet access point connected to your mobile device through WiFi will work. Because this app requires a data connection, it will only work on connected devices such as the iPhone and iPod touch.

Controlling Internet Radio Apps

NOTE: The following features may not be supported by all apps. For demonstration purposes the following examples will show the features for the Livio Car Internet Radio app.

The app must be active on the screen of the device. To do so, simply tap the app's icon and it will load.

Next/previous TRACK buttons execute application specific features such as skipping stream or cycling between station presets. **PRESET (1-6) buttons** are associated with station presets when used with the Livio Car Internet Radio application.

iPhone operating system iOS5 enabled application developers to share the "now playing" screen information. For example, when using the Pandora App, you will see artist, album and song information on the radio's screen. When using an application that doesn't implement this feature, or running iOS4, only the name of the application will be shown.

Please note that although iOS 4 (4.2.1) is supported on iPhone 3G and iTouch 2nd generation, applications do not run in the background. As such, loading the app takes longer than on devices where the app is present in the background.

If your listening experience is interrupted by a call, under most conditions, the app will resume playback at the end of the call.

Music playback apps running on your iPhone are sent to background automatically when the home button of the phone is pressed, but the music playback itself is not stopped.

To resume playback of your iPod music library, stop Livio playback by tapping on the screen below the Livio Radio logo. An icon representing “stop” will show on the main Livio screen. Press the home button to send the application to the background. (Other apps may need to be terminated manually. Please see next page.)

A few seconds after this, the iPod music playback application will reinitialize itself and become active again if the iPod was locked when it was connected to the kit. (This is indicated by an Accessory Connected message being shown when the iPod icon is tapped.)

If the iPod was in unlocked state when it was connected to the kit, press the play button on the iPod application.

Text display from the Internet Radio App

Text that scrolls across the radio’s screen is associated with the stream shown on the radio and displays current song or station information. Stream must be playing before information on the display is updated.

Terminate (kill) the App

If you need to terminate (kill) the app please follow the steps below:

1. Double-tap on the home button of the iPhone to bring up the list of running apps. If you don't see the app's icon right away, swipe the screen left or right to locate it. Note: If you do not see such task bar but rather a music control popup then you have an iOS device that does not support background run of apps, therefore this section is not applicable to you.
2. Press and hold the icon of the app until a red minus icon shows.
3. Tap the red minus icon shown on top of the app.
4. This will close the app.
5. In a few seconds, the iPod music playback app should reinitialize itself and become active again. This can be verified by going back to the list of running apps and swiping the screen until the music control section is shown. The iPod app icon next to the music control sections shows that iPod is your audio source.

Internet Radio App settings

Many radio stations offer lower bitrates. Selecting streams with a lower bitrate will reduce data usage and may reduce stream interruptions during the drive. For example with the Livio Car Internet Radio app, to adjust bitrates manually, users can: Go to the Setting menu of the device, select the Livio Radio settings the change the Maximum Bitrate Filter and set it to 64K. Other settings such as Buffer time and Reliability filter may also help in getting a more stable connection.

Troubleshooting

Problem	Solution
Interference, loss of refreshing RDS text, or signal fading.	This generally can occur on radios with two FM antenna inputs. Radios with a diversity antenna design are able to switch from one antenna input to the other to find the strongest FM signals. Disconnecting the secondary antenna from the radio or using a diversity antenna adapter typically resolves this problem.
Text is not displaying on the screen of the radio.	Text from the iPod will only display if the radio is RDS capable. Look for RDS capability: RDS capable radios will show text in addition to the frequency such as song information while listening to certain FM stations.
Music is distorted or sound level is too low with iPod connected.	Make sure all EQ and BASS boost options are turned off on your iPod.
Why is the remote not controlling the iPod?	Please make sure that the iPod dock connection is not loose. Make sure that an iPod case is not preventing the dock connector from being fully seated. Disconnect and reconnect the device. If iPod is not responding please try resetting it. Check the wireless remote's battery and IR receiver connection.

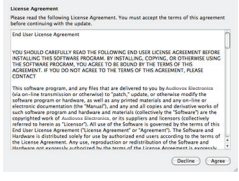
Problem	Solution
Why does the radio display show "EMPTY/STOP" and no music plays?	The iPod does not have playable audio files or end of a playlist is reached. Please select a new Playlist by browsing there on the iPod or remote.
Cannot hear audio from iPod.	Check DIP switch settings and make sure that radio is tuned to selected frequency. With the ignition OFF, disconnect Power harness from module for a few seconds and reconnect. Reset the iPod.
Why does category read "PRESELCTD"?	Playback of content selected on the iPod before connected to the interface continues until new content is selected.
iPod does not charge.	Check all connections. See if iPod charges while connected to computer or wall charger. You may need to reset the iPod.

Problem	Solution
Text from iPod/iPhone music App doesn't show.	Audio stream from internet radio is routed through the Universal RDS kit, but text information may not be available unless the applications shares the "now playing" information with the kit.
I can't control the iPod/iPhone from the radio.	Content control must be done directly on the iPod/iPhone, or via the optional remote control.
Cannot hear AM/FM radio stations.	When an iPod/iPhone is connected to the Universal RDS kit, the interface cuts out the factory antenna feed to prevent interference form strong local stations. Disconnecting the iPod/iPhone restores the antenna connection. If you have the optional remote control, you can press the SOURCE button to switch between iPod/iPhone and factory antenna feed.

Firmware update (Mac OS illustrated)

Connect module via mini USB

Device specifications and update selection


License Agreement
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the update.
End User License Agreement
YOU SHOULD CAREFULLY READ THE FOLLOWING END USER LICENSE AGREEMENT BEFORE INSTALLING THIS SOFTWARE PROGRAM. BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE PROGRAM, YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, PLEASE CONTACT
This software program, and any files that are delivered to you by Audiovox Electronics (via on-line transmission or otherwise) to "patch," update, or otherwise modify the software program or hardware, as well as any printed materials and any on-line or electronic documentation (the "Manual"), and any and all copies and derivative works of such software program and hardware and materials (collectively the "Software") are the copyrighted work of Audiovox Electronics, or its suppliers and licensors (collectively referred to herein as "Licensor"). All use of the Software is governed by the terms of this End User License Agreement ("License Agreement" or "Agreement"). The Software and Hardware is distributed solely for use by authorized end users according to the terms of the License Agreement. Any unauthorized reproduction or distribution of the Software or Hardware, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under the law. Licensor reserves all rights not expressly granted to you in this License Agreement.
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Agree

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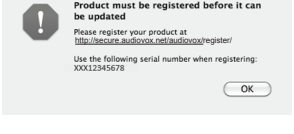
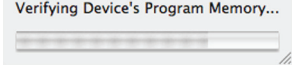
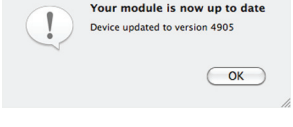

Product must be registered before it can be updated
Please register your product at
http://secure.audiovox.net/audiovox/register/
Use the following serial number when registering:
XXX12345678
OK

Product registration notification



Firmware update progress



Module updated successfully!

The above screen shots are for illustration purposes only.

12 MONTH LIMITED WARRANTY

AUDIOVOX ELECTRONICS CORP. (the Company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and conditions, be proven defective in material or workmanship within 12 months from the date of original purchase, such defect(s) will be repaired or replaced with reconditioned product (at the Company's option) without charge for parts and repair labor. A game controller, if supplied, is similarly warranted for ninety (90) days.

To obtain repair or replacement within the terms of this Warranty, the product is to be delivered with proof of warranty coverage (e.g. dated bill of sale), specification of defect(s), transportation prepaid, to the Company at the address shown below.

This Warranty does not extend to the elimination of externally generated static or noise, to correction of antenna problems, to costs incurred for installation, removal or reinstallation of the product, or to damage to digital memory/media devices, gaming devices, discs, speakers, accessories, or vehicle electrical systems.

This Warranty does not apply to any product or part thereof which, in the opinion of the Company, has suffered or been damaged through alteration, improper installation, mishandling, misuse, neglect, accident, or by removal or defacement of the factory serial number/bar code label(s). THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE AND, IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY PURCHASER FOR THE PRODUCT.

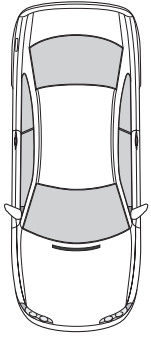
This Warranty is in lieu of all other express warranties or liabilities. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY MUST BE BROUGHT WITHIN A PERIOD OF 24 MONTHS FROM DATE OF ORIGINAL PURCHASE. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. No person or representative is authorized to assume for the Company any liability other than expressed herein in connection with the sale of this product.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damage so the above limitations or exclusions may not apply to you. This Warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Audiovox Electronics Corporation, 150 Marcus Blvd., Hauppauge, New York 11788 • 1-800-645-4994 128-9032

Installation notes:

Installed by:	Illustration:
Installed date:	
Configured frequency:	
Serial number:	
Other notes:	



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